

**HUNTERS POINT NAVAL SHIPYARD  
BASE REALIGNMENT AND CLOSURE CLEANUP TEAM  
MEETING MINUTES**

**March 28, 2013**

These minutes summarize the meeting of the Hunters Point Naval Shipyard (HPNS) Base Realignment and Closure (BRAC) Cleanup Team (BCT) held on March 28, 2013 at the U.S. Environmental Protection Agency (USEPA) office in San Francisco, California. Participants in the meeting included the BCT, which is made up of representatives from the U.S. Navy (Navy), the USEPA, the California Department of Toxic Substances Control (DTSC), and the San Francisco Bay Regional Water Quality Control Board (Water Board). The City of San Francisco (City), its consultants, the Lennar team of developers, and Navy consultants also attended the meeting. These minutes describe the key points, decisions, and action items agreed to at the meeting. A list of attendees is included as Attachment A. The document review table is included as Attachment B. Action items from the meeting are included as Attachment C.

**1.0 Navy Business/Action Items (Keith Forman, Navy)**

Mr. Forman indicated that all but one of the February action items have been completed. The remaining item is that the Navy will identify report changes to the Parcel D-1, Phase II Draft Execution Plan in the cover letter for the plan.

**2.0 Parcel E-2 USEPA Split Sampling Landfill Gas Discussion (Lara Urizar, Navy)**

**USEPA Landfill Gas Split Sampling Event**

- In September 2012, USEPA consultant conducted landfill gas sampling concurrently with Navy quarterly landfill gas monitoring
- USEPA collected samples from nine locations
- All methane and volatile organic compound (VOC) data were below Navy project action levels
- USEPA had four recommendations for the Navy

**Recommendation #1**

- The USEPA requested that the Navy conduct a comprehensive landfill gas study and evaluate a broad range of likely landfill gas constituents. The results of the Navy's landfill gas study should be compared with the USEPA results and integrated into the landfill gas collection and treatment system design.

**Path Forward**

- The Navy noted that the USEPA study and upcoming Navy landfill gas study will be incorporated into the design of the landfill gas collection and treatment system. The results will be incorporated into the draft final Remedial Design report. Mr. Ryan Miya (DTSC) asked that the Navy note in their cover letter for the draft Remedial Design that these additional data will be included in the next version of the report.

- Laboratory results will be reviewed to confirm that broad non-methane organic compounds (NMOC) detections continue to be consistently evaluated and that actual emission concentrations remain below action levels.

## **Recommendation #2**

- The USEPA recommended that the Navy study be conducted under conditions when the maximum amount of landfill gas would be generated.

## **Path Forward**

- The Navy noted that the landfill gas study will be conducted over a period of weeks to months but that optimal site conditions for maximum landfill gas advection rates are not always readily predictable or easily accommodated as a practical matter.
  - Mr. Craig Cooper (USEPA) noted that it might be as simple as collecting the barometric pressure during each of the monitoring events and establishing a baseline for the site. Ms. Melanie Kito (Navy) noted that they collected barometric pressure information for years and it is presented in the historic landfill monitoring reports but will start presenting this information in future reports.

## **Recommendation #3**

- The USEPA recommended that the Navy use both a photoionization detector (PID) and field monitoring instrument that is more sensitive to petroleum hydrocarbons potentially present at the site. In addition, the Navy should collect SUMMA<sup>TM</sup> canisters in addition to field screening tools to provide a laboratory comparison between the field instruments and laboratory data. Also, the Navy should collect samples from the effluent ports of the extraction systems.

## **Path Forward**

- The Navy has no recommendations for alternative procedures or field instruments because the PID continues to be the most available and accepted screening tool for soil vapor VOCs. In addition, the Navy will review the current field and laboratory methods for landfill gas monitoring will be reviewed in the remedial design and alternative procedures will be evaluated.
  - Mr. Cooper noted that the PID doesn't work well for NMOC and the results presented in the monitoring reports indicate that because of the PID detection limit, NMOC are not detected (ND) at the site. When the USEPA conducted sampling with SUMMA<sup>TM</sup> canisters, NMOCs were detected at the site. The Navy noted that even though there were NMOCs detected at the site, they are well below the risk level established at the site. Ms. Urizar noted that they can change the results from ND to below detection level in their reports. Mr. Cooper would like the Navy to keep in mind the risk from each of the constituents that might be in the landfill gas.
- The Navy will perform additional laboratory analysis on an interim basis; currently sampling is planned for April 2013 and will include the same constituents as those tested by the USEPA. The need for further laboratory samples will be further evaluated.

## **Recommendation #4**

- The USEPA recommended that the Navy use helium as a leak detection compound at two air sampling locations.

## **Path Forward**

- The Navy agreed and helium will be used as a leak detection compound during interim sample collection.

### **3.0 Groundwater Update (Hamide Kayaci, Navy)**

#### **Parcel E Groundwater Treatability Study (GWTS) Addendum**

- The Parcel E GWTS Addendum focuses on the zero-valent iron (ZVI) injections at Installation Restoration Site 36 (IR-36) Building 436.
  - Original characterization scope complete in 2009 and injections completed in 2010, and final GWTS technical report submitted in May 2011. The soil vapor data indicated a potential release in the vadose-zone and therefore additional work was conducted in this area.
- The additional IR-36 investigation was conducted in July and September 2012 and included soil gas sampling, membrane interface probe borings and soil borings.
- A summary of the GWTS addendum results includes vadose-zone sources identified at both IR-04 and IR-36 for chlorinated volatile organic compounds (CVOCs) in soil gas, and potential dense non-aqueous phase liquid (DNAPL) with Bay Mud near the northwest corner of Building 406. Groundwater analytical results indicate that there has been no CVOC rebound at the IR-36 treatment area. The Navy would like to remove some of the analytes from the sampling being conducted at the treatment area wells.
  - Mr. Miya asked what report would document the removal of the treatability wells from the groundwater sampling program. Ms. Kayaci responded that it would be documented in the basewide semi-annual report. Mr. Cooper asked if the Navy thinks the VOCs in the vadose zone above the groundwater will migrate and recontaminate the groundwater prior to installation of the soil vapor extraction system. The Navy acknowledges that it is a valid concern. Ms. Kayaci will send the first quarter groundwater monitoring well data to the regulators along with some trend data to the regulators before the report is issued.

### **4.0 Parcel C Excavation Optimization Technical Memorandum (Lora Battaglia, Navy)**

#### **Technical Memorandum Overview**

- The Navy considered locations where chemicals of concern (COCs) were present at concentrations exceeding remedial goals (RGs) (applies to metals and polychlorinated biphenyls [PCBs] only) and classified them.
  - Tier 1 locations are areas where soil concentrations are greater than residential RGs.
  - Tier 2 locations are excavation areas where soil concentrations are greater than five times the residential RGs.
  - Tier 3 locations are excavation areas where soil concentrations are greater than ten times the residential RGs.

## **Results of March 19, 2013 Working Meeting**

- The Navy will ensure that all four of the RUC-2 excavations are incorporated into the final RUC-2 Work Plan. No change pages will be needed since excavations will be conducted per the Remedial Action Work Plan (RAWP).
- Agency comments on the RUC-1, -C4, -C5 draft RAWP are due March 29, 2013.
- Navy is preparing a table to show excavations that may require a change to the record of decision (ROD) and others that will be an optimization of the ROD.
- Navy will provide additional detail in their technical memorandum regarding how they came to optimize excavations and the history of this transition.
- Navy will work with their risk assessors to review technical memorandum language and put together a risk communication strategy.
- Navy will provide additional detail regarding contaminants left in place once a Tier is applied.
- The Navy will also revise their technical memorandum with items discussed during their working meeting.
- The Navy will provide a redline/strikeout version of the technical memorandum and RAWP, proposal for administratively documenting changes to the ROD, and consider notifying the public at the next meeting of any approved changes.

## **Administrative Documentation**

- The Navy believes that changes to the excavation boundaries during the remedial action constitutes a non-significant or minor change to the ROD. The Navy is still looking into this issue as well as the change to the cost estimate. Mr. Cooper asked that the Navy consider whether changing the cleanup level constitutes a significant change to the ROD. He also noted that protectiveness of the cap was not considered part of the protectiveness remedy.
- Ms. Amy Brownell (City) noted that there are areas depicted in the ROD where residential development would not be allowed; however, the current remedial action would clean up these areas to residential standards. She asked if the City would be allowed to do residential development in an area if it contradicts the ROD. The regulators thought that they would be able to develop for residential provided that they provide a letter and appropriate documentation to the regulators for review and approval to remove the institutional controls on the site.

## **5.0 Basewide GIS Planning Program (Melanie Kito, Navy)**

- The Navy developed a Geographic Information System (GIS) master data and schedule tool to help assist HPNS contractors and the Navy in coordinating and planning execution of documents and field work.
- The GIS tool shows excavation areas, remediated area, planned sample locations, stockpile locations/duration, haul routes, laydown areas, and fencing.

- The tool will benefit the Navy and contractors in planning, safety, and remedy optimization.
- The tool is web-based so all Navy, contractors, and agencies can view.

## **6.0 Transfer Schedule Update (Melanie Kito, Navy)**

The change on the transfer schedule update is for the utility corridor (UC)-1 and UC-2 final Finding of Suitability to Transfer which moved out by one month.

## **7.0 Community Involvement Update (Matt Robinson, CirclePoint)**

- Held community meeting on February 28, 2013 with 20 community members in attendance.
- Completed and translated the 2013 Calendar into Spanish and Chinese.
- Nine interviews were completed and survey results were compiled for the Community Information Plan (CIP).
- The Quarterly Progress Update will be finalized in April and the community meeting will take place in Building 101 on the shipyard on April 24, 2013.
- Navy will have an information booth on Earth Day at the Bayview Opera House.

## **8.0 Radiological Update (Chris Yantos, Navy)**

### **Parcel C Phase II Storm Drain and Sewer Removals and Building Surveys**

- Phase II has removed approximately 8,000 linear feet of lines and 18,000 cubic yards of soil, and the sampling of trenches and radiological screening yard pads is ongoing.
- The Navy is beginning scanning surface of Berths 3, 4, and 5. Activities being performed at Buildings 211 and 253 include mobilization, trash removal, and mapping of ventilation and drain lines.

### **Parcel E 500 Series Building and Site Surveys**

- At the Parcel E 500 Series Building, 26 of 27 survey units have passed definitive gamma analysis, and off-site data is expected for the last survey unit soon.
- At Former Shack 79/80, the Navy is awaiting post-remediation sample results.
- At the Building 707 Triangle Area, all survey units passed systematic sampling, and they are awaiting offsite analysis for one survey unit.
- The internal draft Final Status Survey (FSS) for former Building Site 503 is under review.
- The draft FSS for former Buildings 506 is under review.
- The final FSS was submitted for former Building Sites 507, 508, 509, 510/510A, 520, and 529.
- The Navy is awaiting a free release letter for the Building 500 site. Ms. Tracey Jue (California Department of Public Health [CDPH]) noted that CDPH issued that letter today.

### **Parcel D-1, Phase I Report**

- The Navy issued a final FSS for former Building 313, 313A, 322 and 383 Sites.
- The Navy received a free release letter for Building 274 from CDPH.
- The final South Pier FSS will be submitted on April 12, 2013 and the Gun Mole Pier FSS is under development.
- The Phase I radiological Remedial Action Completion Report (RACR) is under development.

### **9.0 Action Items/Future Meetings (Keith Forman, Navy)**

The next BCT meeting will be held on April 25, 2013 at the CH2M HILL offices in Oakland, California. Action items are summarized below and included as Attachment C.

- The Navy will send an email to the regulators with some additional groundwater trend data for Parcel E.
- The Navy will send a copy of the Parcel C table to the regulators following the BCT meeting with corrections for Site COS-2-2.
- The USEPA would like the Navy to do some additional research regarding changing the cleanup levels at Parcel C and whether that would constitute a significant change under ROD guidance.

## ATTACHMENT A

### HUNTERS POINT NAVAL SHIPYARD MEETING ATTENDANCE SHEET

Topic: BCT Meeting  
Location: USEPA Office  
75 Hawthorne Street  
San Francisco, CA  
Date/Time: March 28, 2013/12:00 p.m.

Organization	Name	Phone Number	E-Mail Address	Present
Navy	Keith Forman	619-532-0913	keith.s.forman@navy.mil	X
	Melanie Kito	619-532-0787	melanie.kito@navy.mil	X
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DTSC	Ryan Miya	510-540-3775	ryan.miya@dtsc.ca.gov	X
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	Tami Nakahara			
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	Mary Snow			
	Mark Pantoja	415-762-0565	mpantoja@techlawinc.com	
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	Emily Steinkamp	510-628-9000	esteinkamp@kleinfelder.com	
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	Scott Wolfskill			X
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	Steve Pierce			X
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	Bob Hunt	619-672-2796	rhunt@onesullivan.com	
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Arcadis	Scott Morris	619-291-7800x21	scott.morris@arcadis-us.com	
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Cabrera/Insight	Mitra Fattahipour		MFattahipour@ieeci.com	X

# ATTACHMENT B

## HUNTERS POINT NAVAL SHIPYARD DOCUMENT TRACKING MATRIX

March 28, 2013

Item	Parcel	Document Name	Submittal Date	Expected Date for Comments	Notes	Agency Submittal of Comments			
						EPA	DTSC	Water Board	City of SF
Documents Historically Reviewed									
1	E	Draft Survey Unit Project Reports for Survey Units 301, 306, 307, and 308	11/1/12	12/3/12			12/3/12		
2	C	Final Execution Plan	11/8/12	n/a					
3	C	Final Design Plan	11/8/12	n/a					
4	B	Final Remedial Action Work Plan	11/13/12	n/a					
5	E	Draft Survey Unit Project Reports for Survey Units 305, 309, 310, and 311	11/16/12	12/17/12			12/13/12		
6	E-2	Final Record of Decision	11/26/12	n/a					
7	F	Draft Final Radiological Data Gaps Investigation Tech Memo #2a	11/30/12	12/30/12		1/7/13		1/7/13	
8	E-2	Draft Ship Shielding Rad RACR	12/6/12	1/22/13		1/16/13 No comment	1/22/13	1/31/13 No comment	2/1/13
9	D-1	Former Building 313, 313A, and 322 Sites	12/7/12	1/7/13					
10	F	Final Data Gap Investigation Work Plan and SAP Addendum (2b)	12/10/12	n/a					
11	D-1	Draft Final Status Survey Report for Building 383 Area	12/10/12	1/11/13			1/11/13		
12	UC-1,2	Draft non Rad RACR	12/12/12	1/14/13		1/14/13	1/15/13		1/17/13
13	G	Final Remedial Action Work Plan	12/12/12	n/a					
14	E	Draft GWTS Report Addendum	12/20/12	1/22/13		1/24/13	1/22/13	1/29/13	1/25/13
15	E	Draft Final Proposed Plan	12/20/12	1/11/13		1/9/13	1/10/13	1/14/13	1/11/13

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March 28, 2013

Item	Parcel	Document Name	Submittal Date	Expected Date for Comments	Notes	Agency Submittal of Comments			
						EPA	DTSC	Water Board	City of SF
16	E-2	Final Technical Memorandum for Geotechnical Investigation	1/3/13	n/a					
17	E	Draft Soil Characterization Tech Memo	1/8/13	2/8/13		2/12/13	2/6/13	2/21/13	2/12/13
18	E	Draft Pothole Area Characterization Work Plan	1/8/13	2/8/13			2/6/13	2/12/13	2/7/13
19	B	Startup and Operations Plan for Soil Vapor Extraction System at IR-10	1/10/13	1/31/13	Concurrence Requested	1/22/13			1/25/13
20	B	Revised Polylactate Injection Plan for the Remedial Action	1/12/13	1/24/13	Concurrence Requested	1/21/13	1/22/13	1/22/13	1/17/13 No comment
21	C	Final Execution Plan, Building 253 and 211	1/16/13	n/a					
22	D-1	Replacement Pages and RTCs for Draft Survey Unit Project Reports for Survey Units 254, 256, 265, and 283	1/21/13	n/a	Pages make Draft into Final				
23	E-2	Landfill Gas Monitoring Report for October-December 2012	1/21/13	n/a					
24	E	Draft Final Status Survey Results, Former Building 506 Site	1/21/13	2/18/13			2/15/13		
<b>Document Review Period Recently Completed</b>									
1	UC-1,2	Draft Operation and Maintenance Plan	1/25/13	2/25/13			2/26/13	2/14/13	2/27/13
2	E	Draft Final Status Survey Results, Former Building 508 Site	1/25/13	2/25/13					
3	E	Draft Final Status Survey Results, Former Building 507 Site	1/25/13	2/25/13					

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Item	Parcel	Document Name	Submittal Date	Expected Date for Comments	Notes	Agency Submittal of Comments			
						EPA	DTSC	Water Board	City of SF
4	E-2	Monthly Landfill Gas Monitoring Letter Report for January 2013	1/30/13	n/a					
5	C	Replacement Pages for Final Remedial Design and Design Basis Report	2/1/13	n/a					
6	B	Petroleum Hydrocarbon Corrective Action, Quarterly Monitoring Report Second Quarter 2012	2/4/13	n/a					
7	E-2	Final Ship Shielding RACR	2/13/13	n/a					
8	E	Final IR-03 Treatability Study Report	2/15/13	n/a					
9	B	Appendix B and D to Final Remedial Action Work Plan	2/19/13	n/a					
10	B	Final Petroleum Hydrocarbon Corrective Action, Quarterly Monitoring Report (4Q 2011)	2/22/13	n/a					
11	B	Final Petroleum Hydrocarbon Corrective Action, First Quarter 2012 Groundwater Monitoring Report	2/27/13	n/a					
<b>Documents Currently Under Review</b>									
1	C	Draft Remedial Action Work Plan for RU-C1, RU-C4, RU-C5, and Building 241 Area	11/16/12	3/29/13	Comments Pending Tech Memo				
2	E	Final, Final Status Survey Results, Former Building 510/510A Site	1/31/13	3/4/13					
3	E-2	Draft RACR for PCB TCRA - Phase 2	2/7/13	3/25/13			3/25/13		3/26/13

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Item	Parcel	Document Name	Submittal Date	Expected Date for Comments	Notes	Agency Submittal of Comments			
						EPA	DTSC	Water Board	City of SF
4	D-1	Draft Final Status Survey Report for South Pier Area	2/7/13	3/6/13			3/6/13		
5	E/UC-3	Proposed Plan to Public and BCT	2/12/13	3/12/13					
6	E-2	Draft Work Plan, Landfill Gas Survey At Parcel E-2	2/21/13	3/25/13			3/25/13		
7	UC-1,2	Final Remedial Action Completion Report	2/27/13	n/a					
8	E	Final Survey Unit Project Reports for Survey Units 225, 229, 230, and 235	3/6/13	n/a					
9	E	Final Survey Unit Project Reports for Survey Units 228, 240, 241, and 245	3/7/13	n/a					
10	B	Petroleum Hydrocarbon Corrective Action, Third Quarter 2012 Groundwater Monitoring Report	3/7/13	n/a					
11	UC-1,2	RTCs on Draft Remedial Action Completion Report	3/8/13	n/a					
12	B, D-1, G and UC-2	Final Soil Vapor Investigation Tech Memo	3/8/13	n/a					
13	E	Final Survey Unit Project Reports for Survey Units 246, 248, 249, and 300	3/13/13	n/a					
14	E	Final Survey Unit Project Reports for Survey Units 301, 306, 307, and 308	3/14/13	n/a					
15	C	Final Remedial Action Work Plan RU-C2	3/14/13	n/a					
16	E	Draft NAPL Treatment Pilot Study Work Plan, IR-03	3/15/13	4/16/13					

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						EPA	DTSC	Water Board	City of SF
17	B	Final FOST for IR-7/18	3/19/13	n/a					
18	D-1	Final, Final Status Survey Report, Building 383 Area	3/20/13	4/20/13					
19	E	Final Survey Unit Project Reports for Survey Units 305, 309, 310, and 311	3/21/13	n/a					
20	E	Final GWTS Report Addendum	3/21/13	n/a					
21	D-1	Final, Final Status Survey Report, Former Building 313, 313A, and 322 Sites	3/21/13	4/22/13					
<b>Documents For Upcoming Review (next 3 months)</b>									
1	UC-1,2	Final O&M Plan	4/18/13	n/a	Date Tentative				
2	C	Final RA Work Plan for RU-C1, RU-C5, and Building 241 Area	4/28/13	n/a	Date Tentative				
3	E	Final Soil Characterization Tech Memo	4/30/13	n/a	Date Tentative				
4	E-2	Final RACR for PCB TCRA - Phase 2	5/8/13	n/a	Date Tentative				
5	E	Final Work Plan for Pot Hole Characterization	5/9/13	n/a	Date Tentative				
6	F	Draft Radiological Data Gap Investigation Tech Memo #2b	5/15/13	30 days from submittal date	Date Tentative				
7	D-1	Draft RAD RACR- North	5/20/13	30 days from submittal date	Date Tentative				

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Item	Parcel	Document Name	Submittal Date	Expected Date for Comments	Notes	Agency Submittal of Comments			
						EPA	DTSC	Water Board	City of SF
8	E-2	Draft Remedial Design	5/24/13	45 days from submittal date	Date Tentative				
9	E	Draft ROD	5/29/13	45 days from submittal date	Date Tentative				
10	UC-3	Draft ROD	5/29/13	45 days from submittal date	Date Tentative				
11	E	ISTR Final IR-03 Pilot Study Design	6/4/13	n/a	Date Tentative				
12	All	Draft Five Year Review	6/18/13	45 days from submittal date	Date Tentative				
13	All	Basewide Stormwater Annual Report (2012-2013)	6/26/13	n/a	Date Tentative				
14	F	Final RAD Data Gap Investigation - Tech Memo #2b	7/10/13	30 days from submittal date	Date Tentative				
15	D-1	Draft RAD RACR- South	7/11/13	30 days from submittal date	Date Tentative				



# ATTACHMENT B

## HUNTERS POINT NAVAL SHIPYARD DOCUMENT TRACKING MATRIX

March 28, 2013

Item	Parcel	Document Name	Submittal Date	Expected Date for Comments	Notes	Agency Submittal of Comments			
						EPA	DTSC	Water Board	City of SF
16	E-2	Quarterly Landfill Gas Monitoring Report, Second Quarter 2013	7/29/13	n/a	Date Tentative				

CDPH	California Department of Public Health	RI	Remedial investigation
DTSC	Department of Toxic Substances Control	RTC	Response to comment
EPA	U.S. Environmental Protection Agency	SF	San Francisco
FOSL	Finding of suitability to lease	TCRA	Time critical removal action
FOST	Finding of suitability to transfer	TM	Technical Memorandum
FS	Feasibility study	TPH	Total petroleum hydrocarbon
FSS	Final Status Survey	Water Board	San Francisco Bay Regional Water Quality Control Board
n/a	Not applicable		

**ATTACHMENT C****HUNTERS POINT NAVAL SHIPYARD BASE REALIGNMENT AND CLOSURE CLEANUP TEAM ACTION ITEMS**

Item No.	Action Item	Person Authoring the Action Item	Due Date	Person/Agency Committing to Action Item	Resolution Status
<b>New Action Items</b>					
1	The Navy will send an email to the regulators with some additional groundwater trend data for Parcel E.	Navy – Hamide Kayaci		Navy	Pending
2	The Navy will send a copy of the Parcel C table to the regulators following the BCT meeting with corrections for Site COS-2-2.	Navy – Lora Battaglia		Navy	Completed on March 28, 2013
3	The USEPA would like the Navy to do some additional research regarding changing the cleanup levels at Parcel C and if that would constitute a significant change under ROD guidance.	Navy		Navy	Pending
<b>Outstanding Action Items</b>					
1	The Navy will identify the report changes to the Parcel D-1, Phase II Draft Execution Plan in the Navy's cover letter.	Navy		Navy	In Progress. Estimated completion date is approximately April 28-29, 2013.